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FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

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CURRENT SERIAL RECORD

WATER SUPPLY OUTLOOK and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for COLORADO and NEW MEXICO

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE
and
COLORADO AGRICULTURAL EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, Corps of Engineers and other Federal, State, and private organizations.

AS OF
MAR. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND WATER SUPPLY FORECASTS for COLORADO RIVER, PLATTE RIVER ARKANSAS RIVER AND RIO GRANDE DRAINAGE BASINS issued

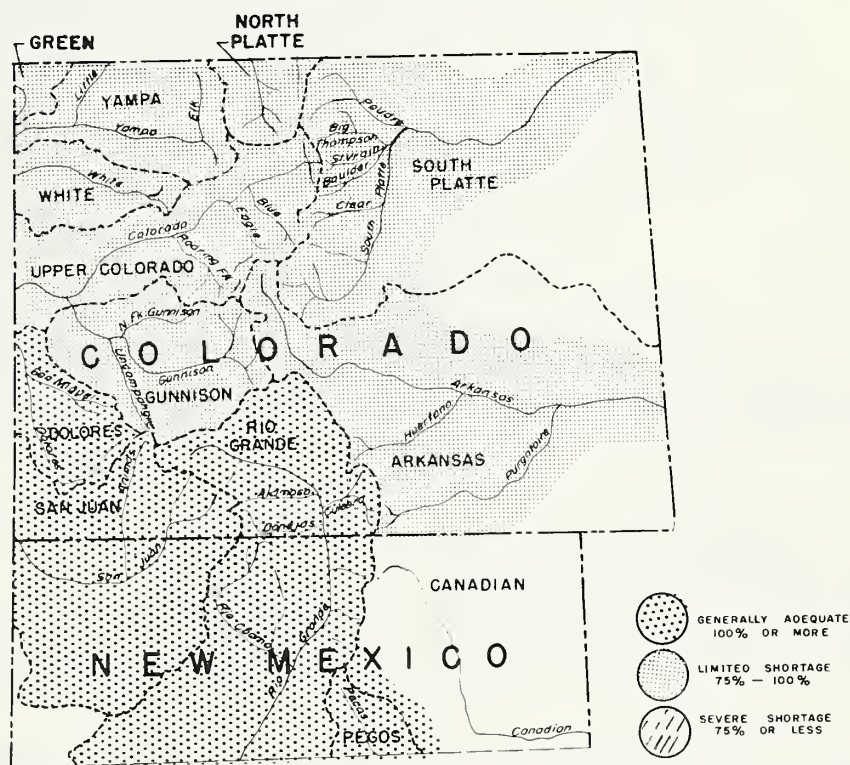
March 1, 1966

Report Prepared By
Jack N. Washichek, Snow Survey Supervisor
and
Don W. McAndrew, Assistant Snow Survey Supervisor
Fort Collins, Colorado

United States Department of Agriculture
Soil Conservation Service
and
Colorado Agricultural Experiment Station
Fort Collins, Colorado

State Engineer of Colorado
Denver, Colorado
and
State Engineer of New Mexico
Santa Fe, New Mexico

WATER SUPPLY OUTLOOK



THE MAP ON THIS PAGE INDICATES THE MOST PROBABLE WATER SUPPLY AS OF THE DATE OF THIS REPORT. ESTIMATES ASSUME AVERAGE CONDITIONS OF SNOW FALL, PRECIPITATION AND OTHER FACTORS FROM THIS DATE TO THE END OF THE FORECAST PERIOD. AS THE SEASON PROGRESSES ACCURACY OF ESTIMATES IMPROVE. IN ADDITION TO EXPECTED STREAMFLOW, RESERVOIR STORAGE, SOIL MOISTURE IN IRRIGATED AREAS, AND OTHER FACTORS ARE CONSIDERED IN ESTIMATING WATER SUPPLY. ESTIMATES APPLY TO IRRIGATED AREAS ALONG THE MAIN STREAMS AND MAY NOT INDICATE CONDITIONS ON SMALL TRIBUTARIES.

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

as of

March 1, 1966



COLORADO--Much additional snow is needed to insure adequate water supplies to all areas of the State this summer. The Southern part of the State is the only area with above normal snow pack. Reservoir carry-over storage is excellent and will be a valuable supplement in case of deficient runoff. There is still a little while in which the snow could build up, but time is getting short.

Soils are in good condition both in the mountains and in the irrigated areas.

Several large storms would help the water supply outlook materially.



NEW MEXICO--Even though all areas of the State have slightly better than average snow packs, more snow is needed to insure adequate water supplies this summer. The main stem of the Rio Grande should flow about 130% of normal with most other smaller streams flowing between normal and 125% of normal.

Reservoir carry-over storage is much improved over a year ago and just slightly above normal.

The Pecos should have adequate supplies as well as the Canadian. Storage in Conchas is much improved over last year and slightly better than normal.

The San Juan River should flow better than normal.

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WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED I

SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.

WATERSHED II

ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca County, Southeastern Baca County, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III

RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Mosca Hooper, Mt. Blanca, Sanches, and Culebra Soil Conservation Districts.

WATERSHED IV

RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Lower Cebolla, Abiquiu-Vallecitos, Eastern Taos, Lindrieth, Coyote-Canones, Espanola Valley, Pojoaque, Jemez, Santa Fe-Sandoval, Tijeras, Cuba, and Englewood Soil Conservation Districts.

WATERSHED V

DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, and Glade Park Soil Conservation Districts.

WATERSHED VI

GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

WATERSHED VII

COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, Plateau Valley, South Side, and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII

YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, Upper White River, Lower White River, and Douglas Creek Soil Conservation Districts.

WATERSHED IX

LOWER SOUTH PLATTE RIVER WATERSHED

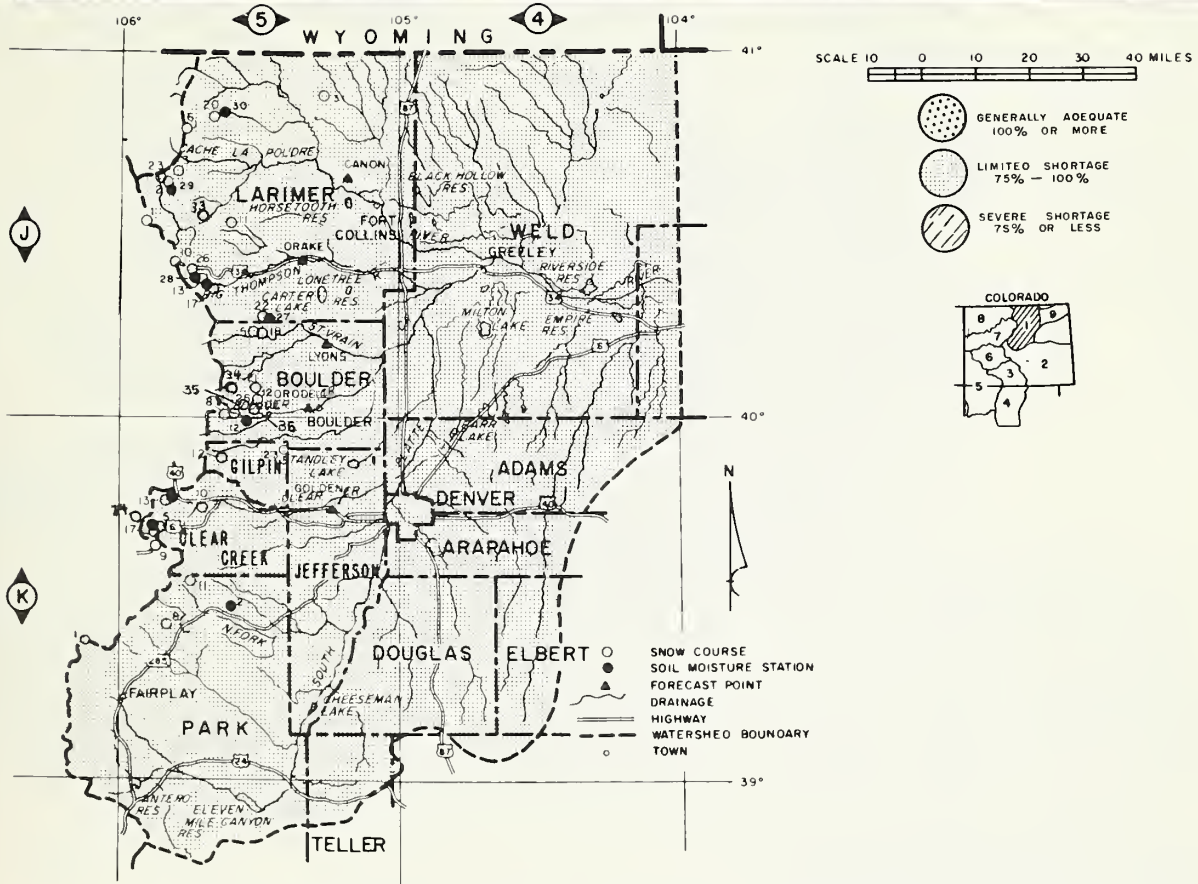
Describes water supply conditions in Sedgwick, South Platte, Haxton Peetz, Padroni, Morgan, Rock Creek and Yuma Soil Conservation Districts.

WATERSHED I

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The South Platte and its' tributaries are far behind on their high elevation snow pack. Current snow readings indicate the snow is only 53% of last year and only 65% of the 1948-62 normal. There are a couple of months left in which to bring the snow pack up to normal, but it is doubtful if it will reach normal levels.

The total water supply outlook is not quite so bad, primarily due to the above average carry-over storage.

Irrigated areas that have reservoir storage to back up the summer runoff should have a near normal water supply, while farms relying on river runs will have short water supplies.

Soils in the mountains are wet, which should increase the runoff slightly.

Forecasts are based on average precipitation for the remainder of the year. Saint Vrain is forecasted the lowest of the tributary streams, and is 69% of average. Clear Creek should flow the highest at 85%.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

E. A. Nicholson, Area Conservationist,
Littleton, Colorado

SNOW

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
South Platte River & Tributaries						
Baltimore	5K23	2/28	16	6.5	6.5	-
Berthoud Falls	5K13	2/28	35	9.2	15.0	13.0*
Big South	5J3	2/26	7	1.3	3.7	2.5
Boulder Falls	5J25	2/27	27	7.4	14.5	9.9*
Cameron Pass (A)	5J1	2/24	48	15.2	20.5	19.2
Chambers Lake	5J2	2/26	17	4.3	10.2	7.8
Copeland Lake	5J18	2/25	10	2.4	5.6	4.5*
Deadman Hill (A)	5J6	2/23	46	12.0	15.2	12.9
Deer Ridge	5J17	2/24	13	3.4	5.0	4.7*
Empire	5K10	2/28	27	4.6	7.4	6.5*
Geneva Park	5K11	2/28	10	2.1	6.3	3.7*
Grizzly Peak (B)	5K9	2/28	37	8.8	19.4	15.0
Hidden Valley	5J13	2/24	26	5.9	10.0	9.4
Hoosier Pass	6K1	2/25	29	5.6	17.1	11.1
Hour Glass Lake	5J11	2/25	17	3.3	7.7	6.0
Jefferson Creek	5K8	2/25	25	5.1	11.3	8.0*
Lake Irene (B)	5J10	EST.	55	16.5	24.0	20.0
Long's Peak	5J22	2/27	28	6.1	12.5	9.8*
Lost Lake	5J23	2/28	24	5.9	12.2	10.8*
Loveland Lift No. 1	5K24	2/28	53	13.8	15.9	-
Loveland Pass	5J5	2/28	36	8.8	23.5	13.1
Pine Creek	5J31	2/25	6	1.2	2.0	-
Red Feather	5J10	2/25	15	3.2	6.6	6.5*
Two Mile	5J26	2/24	33	8.3	14.5	12.6*
University Camp	5J8	2/27	34	8.7	19.4	17.6
Ward	5J21	2/25	15	2.9	7.1	5.4*
Wild Basin	5J5	EST.	35	7.6	14.2	11.9

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Antero	33.0	15.9	0	13.4
Barr Lake	32.2	27.2		20.5
Black Hollow	8.0	4.1	3.0	3.1
Boyd Lake	58.1	41.2	26.6	18.6
Cache La Poudre	9.5	8.3	7.2	6.6
Carter Lake	108.9	108.1	81.8	63.0
Chambers Lake	8.8	5.0	3.3	2.2
Cheeseman	79.0	79.1	22.3	49.8
Cobb Lake	34.3	7.4	5.6	9.3
Eleven Mile	81.9	87.9	27.7	74.2
Fossil Creek	11.6	9.9	5.3	6.0
Gross	43.1	33.6	27.4	- -
Halligan	6.4	6.1	2.5	2.9
Horsetooth	143.5	95.5	80.2	69.5
Lake Loveland	13.6	8.3	8.5	6.3
Lone Tree	9.2	7.8	0.5	5.8
Mariano	5.4	5.1	5.1	2.7
Marshall	10.3	6.4	0.6	2.5
Marston	18.9	15.0	15.4	13.8
Milton	24.4	13.7	1.2	10.7
Standly	18.5	18.3	5.9	10.2
Terry Lake	8.2	5.9	3.0	4.6
Union	12.7	12.7	6.4	7.6
Windsor	18.6	11.8	2.6	8.6

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Alpine Camp	10/26	6.9	5.5	3.2	4.8
Beaver Dam	10/26	7.1	5.5	3.0	3.8
Clear Creek	10/29	9.5	8.0	7.0	6.7
Feather	10/23	10.1	5.1	4.2	4.6
Guard Station	10/26	6.9	5.0	2.8	3.4
Hoop Creek	12/15	4.9	3.6	2.6	2.7
Hoosier Pass	11/23	7.8	4.8	4.3	5.1
Kenosha Pass	11/23	4.4	3.1	2.3	2.6
Laramie Road	10/23	12.4	11.9	7.1	7.6
Two Mile	10/26	9.1	6.5	4.4	5.8

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		AVERAGE 1948-62
	FORECAST APRIL - SEPT.	THIS YEAR % AVERAGE	
Big Thompson at Drake (2)	90	81	110
Boulder at Orodell	44	81	54
Cache La Poudre at Canon Mouth (1)	200	81	246
Clear Creek at Golden (3)	115	85	134
Saint Vrain at Lyons	55	69	80

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

- (1) Observed flow minus diversions from Michigan, Colorado and Laramie rivers, plus diversions for irrigation and municipal use above station.
- (2) Observed flow plus by-pass to power plants.
- (3) Observed flow minus diversions through Jones Pass.

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DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Snow Survey
 Colorado State University
 Fort Collins, Colorado

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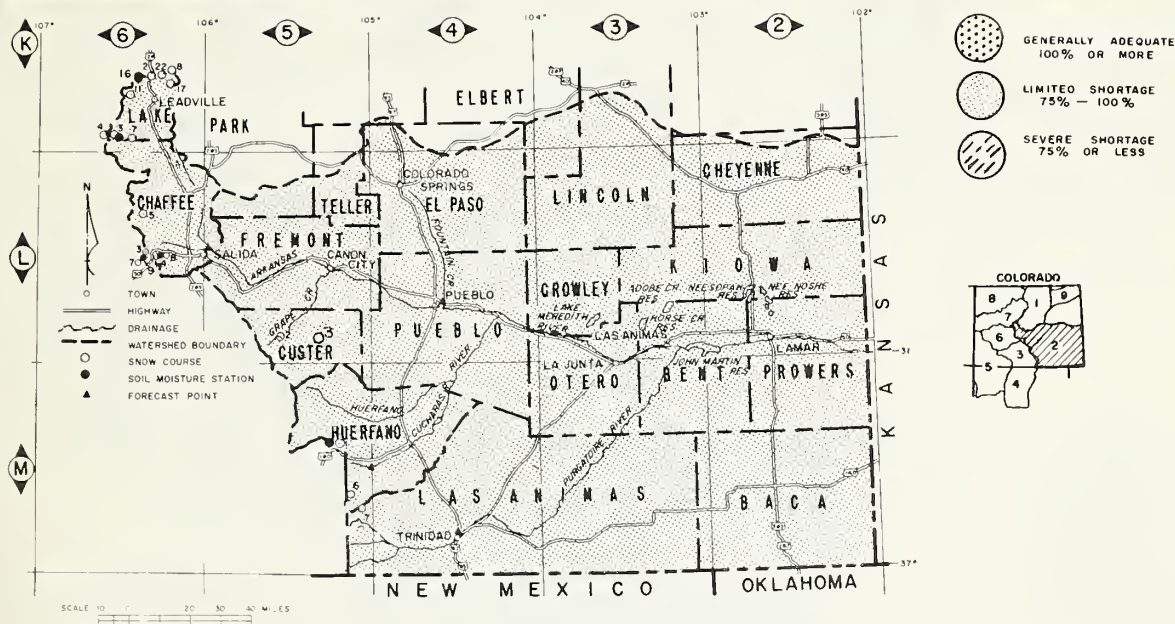
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WATERSHED II

WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
ARKANSAS RIVER WATERSHED IN COLORADO
as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The Arkansas Valley is very fortunate to have three times normal carry-over storage, because the spring and summer runoff will be much below normal. There are still two months to change this outlook, but it is doubtful if the deficiency can be overcome.

Snow pack over the entire drainage is 71% of normal. Some snow courses are approaching the minimum of record.

Reservoir storage is the highest in many years and this will be of great assistance this summer.

Soil moisture conditions in the mountains is also excellent.

Valley soils are also reported in good shape for spring planting.

Current forecasts are, based on normal precipitation for the remainder of the year. If this is the case forecasts indicate the Arkansas main stem will flow about 70% of the 1948-62 normal. The Purgatoire should flow about the same percentage.

“THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY”

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

Will D. McCorkle, Area Conservationist,
La Junta, Colorado

SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	AVERAGE 1948-62
Arkansas River						
Bigelow Divide	5L3	2/25	19	2.9	5.3	- -
Blue Lakes	5M6	2/24	12	1.9	2.9	- -
Bourbon	5M5	2/25	23	4.6	8.0	6.7
Cooper Hill	6K23	2/27	30	6.4	8.8	- -
Cucharas Pass	5M7	2/24	26	4.5	6.7	- -
East Fork	6K17	2/25	25	5.5	12.1	8.4*
Four Mile Park	6K7	2/27	21	3.9	8.3	4.5
Fremont Pass	6K8	2/25	34	8.6	16.9	13.8
Garfield	6L8	2/24	38	9.3	16.7	- -
LaVeta Pass (B)	5M1	2/24	34	8.3	11.1	8.5
Monarch Pass	6L4	2/24	38	9.2	18.6	15.6
St. Elmo (A)	6L5	2/26	32	7.0	10.8	10.7*
Tennessee Pass	6K2	2/27	34	6.4	13.7	8.7
Tomichi	6L7	2/24	30	7.4	15.0	- -
Twin Lakes Tunnel	6K3	3/1	22	6.0	11.7	9.7
Westcliffe	5L2	2/25	25	5.7	7.5	5.5*

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Adobe Creek	61.6	57.1	0	13.9
Clear Creek	11.4	11.2	10.4	5.4
Cucharas	40.0	0	0	5.3
Great Plains	150.0	65.2	0	45.3
Horse Creek	26.9	23.2	0	6.0
John Martin	366.6	375.5	2.7	77.7
Meredith	41.9	26.2	0	10.2
Model	15.0	3.9	0	2.6
Sugar Loaf	17.4	15.5	5.3	7.0
Twin Lakes	57.9	52.2	11.2	19.7

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Garfield	11/9	6.7	6.1	4.7	3.3
King	11/9	3.3	3.0	2.3	1.8
LaVeta Pass	12/8	11.9	10.6	6.1	7.0
Leadville	11/15	7.8	5.6	5.2	3.9
Twin Lakes Tunnel	11/15	4.5	3.6	3.0	2.1

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		THIS YEAR	AVERAGE
	FORECAST APRIL - SEPT.	%	1948-62	AVERAGE
Arkansas at Pueblo (4)	236	70	323	
Arkansas at Salida (4)	252	73	345	
Cucharas near LaVeta	14	100	14	
Purgatoire at Trinidad	33	73	45	

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

(4)Observed flow plus change in storage in Clear Creek, Twin Lakes, and Sugar Loaf Reservoirs minus diversions through Busk-Ivanhoe and Twin Lake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine Ditches.

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SOIL CONSERVATION SERVICE

Snow Survey
 Colorado State University
 Fort Collins, Colorado

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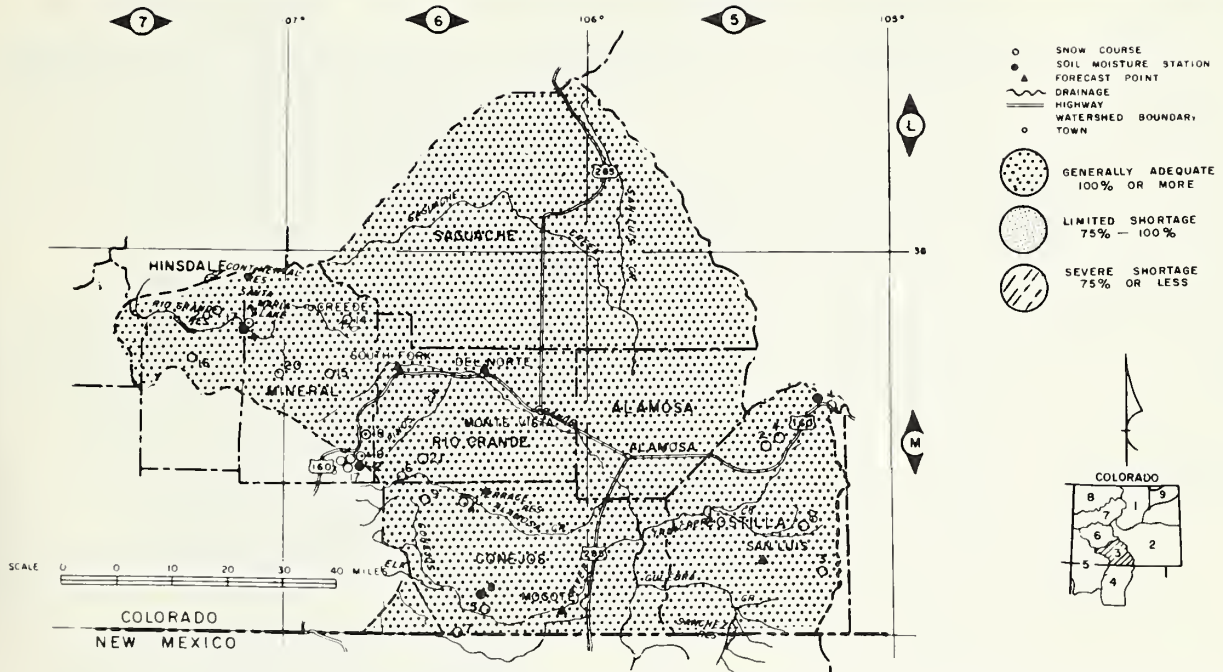
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UPPER RIO GRANDE WATERSHED IN COLORADO

as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The snow pack in South Central Colorado is the best in the State. This, however, is not nearly as good as last year and only a little above normal.

Snow pack on the main stem of the Rio Grande is 111% of normal. Tributary streams, the Alamosa and Conejos have slightly better snow packs.

Reservoir carry-over storage is good and will assist farmers who are served by irrigation systems.

Mountain soils are wetter than usual and should increase summer streamflow to some extent.

Winter streamflow has been normal to slightly above.

Valley soils are in good condition.

Streamflow forecast range from 125% of normal on the Alamosa to 115% of normal on the Conejos. Additional snowfall is needed to insure above average streamflow this summer. About 3/4 of the snow season has now passed.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

Benny Martin, Area Conservationist,
Durango, Colorado

SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
<u>Rio Grande in Colorado</u>						
Cochetopa Pass	6L6	2/24	20	3.0	5.7	4.9*
Hiway	6M19	2/25	66	24.2	30.3	21.6*
Lake Humphreys (A)	6M15	2/26	32	8.0	12.0	6.6*
Pass Creek	6M18	2/25	45	13.8	18.0	10.2*
Pool Table (A)	6M14	2/26	37	9.3	11.2	5.5*
Porcupine (A)	6M20	2/26	35	8.8	12.6	9.6*
Red Mountain Pass (B)	7M15	2/24	71	22.8	30.3	26.0*
Santa Maria	7M17	2/26	25	4.9	7.1	5.0
Upper Rio Grande	7M16	2/23	34	8.0	11.2	7.9
Wolf Creek Pass	6M1	2/25	75	28.9	34.5	25.6
Wolf Creek Summit (B)	6M17	2/25	81	29.6	34.6	23.2
<u>Alamosa River</u>						
Silver Lakes	6M4	2/28	31	5.5		6.6
Summitville (A)	6M6	2/26	63	21.4	21.0	15.5
<u>Conejos River</u>						
Cumbres Pass (A)	6M7	2/26	64	23.0	25.2	17.0
Platoro (A)	6M9	2/26	57	18.2	21.0	13.5*
River Springs	6M5	2/28	22	5.3	11.0	7.1
<u>Sangre De Cristo Range</u>						
Blue Lakes (B)	6M6	2/24	12	1.9	2.9	- -
Cucharas Pass (B)	5M7	2/24	26	4.5	6.7	- -
Culebra (A)	6M3	2/26	39	9.4	10.4	8.5
LaVeta Pass	5M1	2/24	34	8.3	11.1	8.5

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Continental	26.7	8.9	1.3	5.4
Platoro	60.0	17.3	2.7	- -
Rio Grande	45.8	36.3	5.8	13.0
Sanchez	103.2	15.2	4.7	10.2
Santa Maria	45.0	18.1	2.8	6.8
Terrace	17.7	10.8	1.8	3.0

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Alberta Park	12/8	8.2	8.2	5.9	4.8
Bristol View	11/24	6.1	4.9	3.5	4.4
LaVeta Pass	12/8	11.9	10.6	6.1	7.0
Mogote	12/7	10.7	6.7	5.0	5.3

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		THIS YEAR	AVERAGE
	FORECAST	APRIL - SEPT.		
Alamosa above Terrace	85	125	68	
Conejos near Mogote	225	115	196	
Culebra at San Luis (6)	26	124	21	
Rio Grande at 30 Mile Bridge (5)	156	118	132	
Rio Grande nr Del Norte (5)	575	117	492	
South Fork at South Fork	150	123	122	

- (5) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoir.
 (6) Observed flow plus changes in storage in Sanchez Reservoir.

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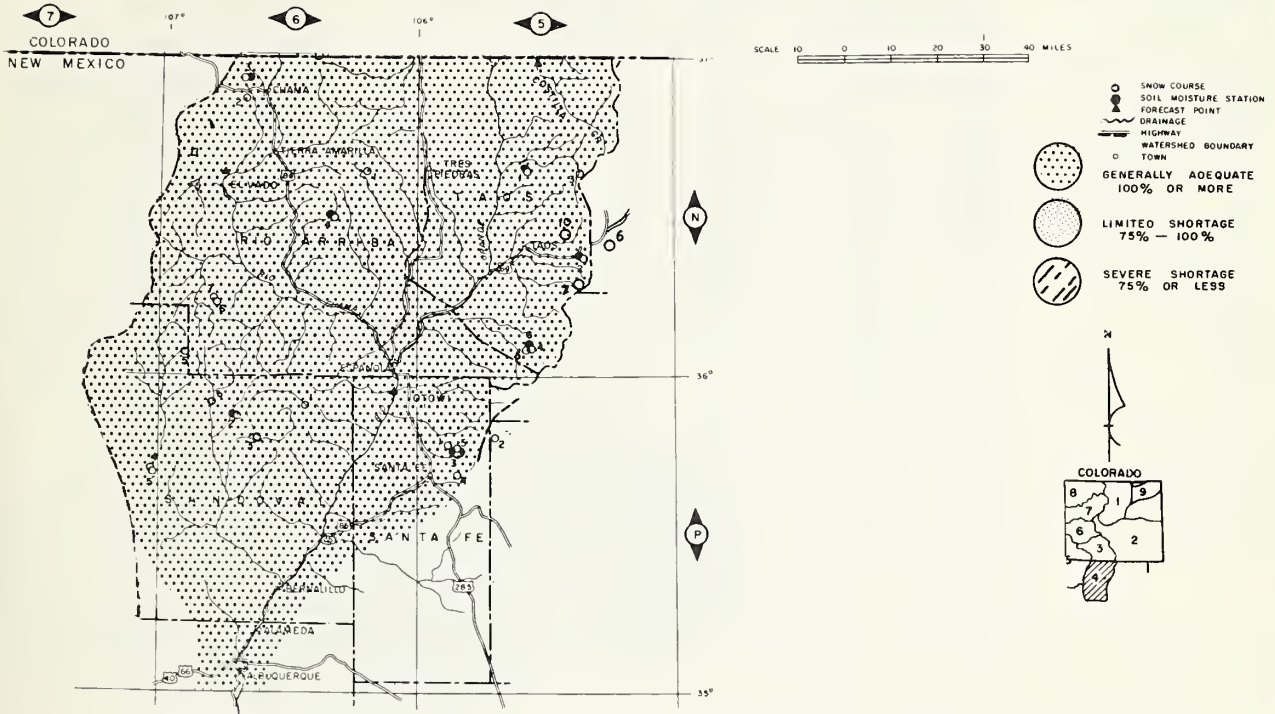
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RIO GRANDE WATERSHED IN NEW MEXICO

as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The Rio Grande should have above normal runoff this summer if spring snowfall is at least normal. Current readings indicate snow pack is 114% of the 15 year average. Snowfall in the Upper Basin in Colorado is slightly better than New Mexico, but both areas are above normal.

Reservoir carry-over storage is slightly better than normal and will be a good supplemental supply for farmers and ranchers served by them.

Soil moisture is good in the mountain areas and the plains are reporting fair to good conditions.

Forecasts are based on normal precipitation for the remainder of the year. These forecasts show the main stem of the Rio Grande should flow 135% of normal, Chama 98% of normal, the Pecos 140% of normal and the Rio Hondo and Red River near normal.

Additional snow is needed to insure these runoffs.

“THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY”

Issued By: Soil Conservation Service

Einar L. Roget, State Conservationist,
Albuquerque, New Mexico

Walter B. Rumsey, Area Conservationist,
Santa Fe, New Mexico

SNOW		CURRENT INFORMATION			PAST RECORD		
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)		
					LAST YEAR	AVERAGE 1948-52	
Rio Grande (Colorado)							
Culebra	(A)	6M3	2/26	39	9.4	10.4	8.5
Cumbers Pass	(A)	6M7	2/26	64	23.0	25.2	17.0
LaVeta Pass		5M1	2/24	34	8.3	11.1	8.5
Platoro	(A)	6M9	2/26	57	18.2	21.0	13.5
River Springs		6M5	2/28	22	5.3	11.0	7.1
Santa Maria		7M17	2/26	25	4.9	7.1	5.0
Silver Lakes		6M4	2/28	31	5.5	-	6.6
Summitville	(A)	6M6	2/26	63	21.4	21.0	15.5
Upper Rio Grande		7M16	2/23	34	8.0	11.2	7.9
Wolf Creek Pass		6M1	2/25	75	28.9	34.5	25.6
Aspen Grove (New Mexico)		5P1	NS			7.9	4.5
Bateman		6N4	2/25	37	9.1		9.8*
Big Tesuque		5P3	2/28	30	7.1	9.4	4.5
Blue Bird Mesa		6P6	2/25	29	5.8	8.9	-
Capuline Peak		6N6	2/24	20	4.1	6.9	-
Chama Divide		6N2	2/25	22	5.6	6.6	4.2
Chamita		6N3	2/25	37	10.0	12.3	9.0
Cordova	(A)	5N5	2/26	39	8.6	12.6	10.0
Elk Cabin		5P4	2/24	12	4.4	5.3	3.2
Fenton Hill		6P2	2/24	28	6.4	6.7	4.1*
Hematite Park		5N3	2/25	22	4.4	5.8	4.2
Mora View		5N7	2/24	9	2.0	5.0	-
Pajarito Peak		6P4	2/24	8	1.8	2.7	-
Panchuela		5P2	2/23	24	5.3	5.9	2.9
Payrole	(A)	6N1	2/26	34	8.8	10.2	9.0
Philmont		5N6	NS				-
Quemazon		6P1	2/24	40	8.5	11.7	7.4*
Red River		5N1	2/25	25	5.0	8.0	6.3
Rio En Medio		5P5	2/28	41	11.0	13.1	6.7*
Sandavol		6P3	2/24	29	6.7	6.5	-
Taos Canyon		5N2	2/24	22	4.0	6.3	4.8
Tres Ritos		5N4	2/24	22	4.6	9.2	4.9
Twinning		5N10	2/24	42	10.6	-	-

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

Rio Grande at San Marcial is
 Forecast at 83 % of the Elephant
 Butte Irrigation District's normal.

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
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 Colorado State University
 Fort Collins, Colorado

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEA AVERAGE 1948-62
Alamogordo	122.1	55.0	25.0	75.9
Caballo	344.0	83.7	13.2	116.7
Conchas	600.0	259.7	3.2	239.4
Elephant Butte	2206.8	537.7	154.9	389.1
El Vado	194.5	2.0	2.4	17.2
McMillan-Avalon	37.0	9.4	3.0	17.8
Red Bluff (Tex)	307.0	51.6	20.2	71.8

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Colorado					
Alberta Park	12/8	8.2	8.2	5.9	4.8
Bristol View	11/24	6.1	4.9	3.5	4.4
Mogote	12/7	10.7	6.7	5.0	5.3
New Mexico					
Aqua Piedra	-----	7.2	---	2.4	3.5
Bateman	10/21	6.7	4.6		2.2
Big Tesuque	11/2	3.7	3.7	0.5	1.2
Chamita	11/15	8.0	5.0	2.4	2.0
Fenton Hill	10/21	6.5	4.2	2.2	-
Red Summit	10/29	4.8	1.7	1.5	2.5
Rio En Medio	11/2	3.5	3.5	0.6	1.1
Taos Canyon	10/29	3.3	2.3	1.7	2.3

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER, THIS YEAR		
	FORECAST APRIL - SEPT.	YEAR % AVERAGE	1948-62
Costilla at Costilla (8)	20	80	25
Pecos at Pecos	75	142	53
Rio Chama nr La Puente	210	98	214
Rio Grande at Otowi (7)*	825	135	609
Rio Grande at San Marcial (7)*		572	135 424
Rio Hondo nr Valdez	18	100	18
Red River at Questa**	23	92	25

- (7) Observed flow plus changes in storage in El Vado and Abiquiu Reservoirs.
- (8) Observed flow plus changes in storage in Costilla Reservoir.
- * Rio Grande at Otowi and Rio Grande at San Marcial, Forecast and Average are March - July inclusive.
- ** Red River at Questa Forecast and Average April - July inclusive.

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SOIL CONSERVATION SERVICE

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 Colorado State University
 Fort Collins, Colorado

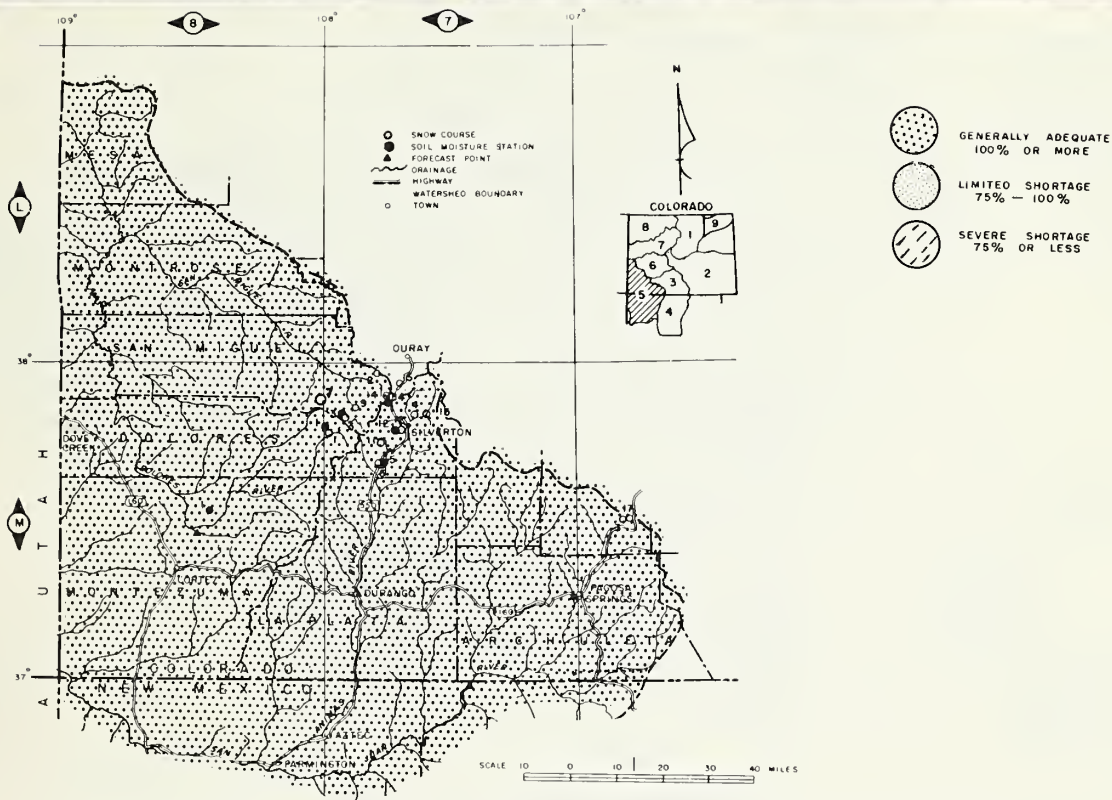
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WATER SUPPLY OUTLOOK WATERSHED V
FOR THE SOIL CONSERVATION DISTRICTS IN THE
SAN MIGUEL - DOLORES - ANIMAS - SAN JUAN
WATERSHEDS IN COLORADO AND NEW MEXICO

as of
March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The general water supply outlook for the San Juan, Animas and Dolores Drainages is good.

The snow has not quite kept pace with the early season, but is still above normal in all three drainages.

The San Juan's snow pack is 117% of normal while the Animas and Dolores is 103% of normal.

Carry-over in the basins major reservoirs is excellent and will be a good supplement for summer streamflow.

High elevation soils are wet and valley soils are reported to be in excellent condition.

All the streams in the basin are expected to flow better than normal this summer. None of the forecasts are extremely high, but none are below average. The San Juan should flow about 125% of normal, while other streams in the area should flow slightly lower. Current streamflow is about normal. Snowfall must continue for the next 2 months to guarantee average streamflow this summer

'THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY'

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
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Benny Martin, Area Conservationist,
Durango, Colorado

Einar L. Roget, State Conservationist,
Albuquerque, New Mexico
Walter B. Rumsey, Area Conservationist,
Santa Fe, New Mexico

Dearl Beach, Area Conservationist,
Grand Junction, Colorado

SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
<u>San Juan River</u>						
Chama Divide (B)	6N2	2/25	22	5.6	6.6	4.2
Chamita (B)	6N3	2/25	37	10.0	12.3	9.0
Upper San Juan	6M3	2/25	84	31.8	36.8	28.2
Wolf Creek Pass (B)	6M1	2/25	75	28.9	34.5	25.6
Wolf Creek Summit	6M17	2/25	81	29.6	34.6	23.2
<u>Animas River</u>						
Cascade	7M5	2/24	41	12.8	12.7	11.9
Howardville	7M13	2/24	39	11.2	13.9	9.7*
Ironton Park (B)	7M6	2/25	36	9.5	12.3	10.7
Mineral Creek	7M14	2/24	44	11.5	17.9	13.2*
Molas Lake	7M12	2/24	43	13.5	15.5	12.7*
Red Mountain Pass	6M19	2/24	71	22.8	30.3	26.0*
Silverton Sub-Station	7M4	2/24	35	9.7	9.3	5.6
Spud Mountain	7M11	2/24	62	24.2	27.1	21.7*
<u>Dolores River</u>						
Lizzard Head	7M3	2/25	50	15.5	17.8	13.2
Rico	7M1	2/25	31	8.2	9.7	8.0
Telluride	7M2	2/24	24	5.8	7.9	6.7
Trout Lake	7M9	2/24	40	11.0	15.8	11.5*

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
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 Fort Collins, Colorado

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Groundhog	21.7	18.5	6.8	6.0
Navajo	1036.0	216.5	265.0	- -
Vallecito	126.3	74.9	35.5	46.4

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Cascade	11/26	9.1	7.6	5.3	6.7
Dolores	11/10	19.6	9.8	0.5	4.3
Lizzard Head	11/10	11.8	8.3	9.9	8.2
Mineral Creek	11/26	5.7	4.8	3.9	3.6
Molas Lake	11/26	9.4	7.9	3.9	4.2
Rico	11/10	13.8	13.5	13.1	9.1

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		
	FORECAST APRIL-1 SEPT.	THIS YEAR % AVERAGE	AVERAGE 1948-62
Animas at Durango	550	120	456
Dolores at Dolores	300	115	260
La Plata at Hesperus	34	125	27
Los Pinos at Bayfield (9)	300	135	220
Piedra Creek nr Piedra	230	126	132
San Juan at Rosa (9)	750	125	597

(9) OBSERVED FLOW PLUS CHANGES IN STORAGE IN VALLECITO RESERVOIR

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GUNNISON RIVER WATERSHED IN COLORADO

as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



Water supplies should be adequate on the Gunnison this summer, however, snowfall is slightly below normal. Snowfall on the main stem of the Gunnison now stands at 93% of normal, however, there are still a couple of months left in which this could increase. The Grand Mesa area of the drainage is above normal, but the headwaters area is considerably below.

Soil moisture conditions in the high mountain areas are good, which will help increase the spring runoff. Taylor Reservoir contains 80,000 acre feet of water compared to a normal of 56,600 acre feet and last years 73,000 acre feet.

Forecasts are based on precipitation being normal for the remainder of the year. If this be the case the Gunnison should flow about 1,350,000 acre feet or 103% of normal.

The Uncompahgre should flow 94% of the 1948-62 average and Surface Creek should flow 105% of average. Current streamflow is about normal.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

Dearl Beach, Area Conservationist,
Grand Junction, Colorado

SNOW

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
Gunnison River						
Alexander Lakes (A)	7K3	2/27	64	18.6	19.0	17.8
Black Mesa	7L5	2/17	50	14.5	-	-
Blue Mesa	7L2	2/25	30	6.5	7.6	6.5*
Butte	6L11	2/25	41	11.6	18.9	-
Cochetopa Pass	6L6	2/24	20	3.0	5.7	4.9*
Crested Butte	6L1	2/25	40	9.8	16.3	12.1
Keystone	7L3	2/25	48	14.1	26.8	-
Lake City	7M8	2/26	29	5.0	9.4	8.0
Long Gulch	7L4	2/18	32	8.4	-	-
Mesa Lakes (B)	7K4	2/25	49	14.9	14.6	14.3
Monarch Pass (B)	6L4	2/24	38	9.2	18.6	15.6
McClure Pass (A)	7K8	2/27	52	17.7	18.2	15.5*
Mineral Creek (B)	7M14	2/24	44	11.5	17.9	13.2*
North Lost Trail (A)(B)	7K1	2/27	41	13.9	17.0	13.7
Park Cone	6L2	2/24	33	7.8	13.7	9.7
Park Reservoir (A)	7K6	2/27	72	22.3	19.3	21.1
Porphyry Creek	6L3	2/24	40	10.7	17.4	14.5
Tomichi	6L7	2/24	30	7.4	19.8	-
Trickle Divide (A)(B)	7K5	2/27	80	24.8	15.0	22.5
Uncompahgre River						
Ironton Park	7M6	2/25	36	9.5	12.3	10.7
Lizzard Head	7M3	2/25	50	15.5	17.8	13.2
Lone Cone	7M7	2/25	45	12.6	13.7	-
Red Mountain Pass (B)	7M15	2/24	71	22.8	30.3	26.0*
Telluride	7M2	2/24	24	5.8	7.9	6.7
Trout Lake	7M9	2/24	40	11.0	15.8	11.5*

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Taylor	106.2	80.0	73.3	56.6

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Grand Mesa	11/10	12.5	12.5	9.0	-
King	11/9	3.3	3.0	2.3	1.8
Mineral Creek	11/26	5.7	4.8	3.9	3.6
Placita	12/7	9.3	8.4	3.9	5.1

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		THIS YEAR	AVERAGE
	APRIL - SEPT.	% AVERAGE		1948-62
Gunnison nr Grand Jct.	1350	103	1305	
Surface Creek nr Cedaridge	18	105	17	
Uncompahgre at Colona	130	94	139	

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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
COLORADO RIVER WATERSHED IN COLORADO
as of
March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The snow pack in the headwaters of the Colorado is poor. Current snow readings indicate only about 70% of normal and only 55% of last year at this time. The Roaring Fork is in better shape with 89% of the 15 year normal while the Grand Mesa area has 106% of average snow.

If snowfall remains average for the rest of the season the Colorado as a whole should flow about 80% of normal.

Of some help is the rather good high elevation soil moisture conditions. This will tend to increase summer runoff. Carry-over storage is considerably up from last year and slightly above normal.

The Roaring Fork should flow nearly normal this summer and Plateau Creek should produce slightly better than normal flow.

Valley soils are reported in good condition.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

Dearl Beach, Area Conservationist,
Grand Junction, Colorado

J. L. Hall, Area Conservationist,
Glenwood Springs, Colorado

SNOW

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
Colorado River						
Arrow	5K6	2/25	35	7.6	11.5	9.5
Berthoud Pass	5K3	2/25	40	9.4	14.5	12.2
Berthoud Summit	5K14	2/28	35	9.2	16.5	16.5*
Blue River	6K21	2/25	22	4.2	11.2	7.5*
Cooper Hill	6K23	2/27	30	6.4	8.8	- -
Fiddlers Gulch	6K5	EST.	30	8.0	17.8	14.9
Fremont Pass	6K8	2/25	34	8.6	16.9	13.8
Frisco	6N3	3/1	20	3.6	9.4	7.5*
Glen Mar Ranch	6K20	2/24	26	4.9	7.6	7.0
Gore Pass	6J11	2/23	23	5.2	13.5	9.1*
Granby	5J16	2/23	25	5.6	10.2	6.2*
Grand Lake	5J19	2/26	28	5.0	10.5	7.5*
Grizzly Peak	5K9	3/28	37	8.8	19.4	15.0
Hoosier Pass (B)	6K1	2/25	29	5.6	17.1	11.1
Jones Pass	5K21	2/25	37	8.3	13.8	10.9*
Lake Irene	5J10	EST.	55	16.5	24.0	20.0
Lapland	5K7	2/24	24	5.9	10.5	10.0
Lulu	5J7	2/26	39	9.5	16.8	14.2
Lynx Pass	6J6	2/23	30	7.0	13.0	10.8
McKinzie Gulch	6K28	2/23	23	3.5	6.5	- -
Middle Fork Campground	5K4	2/24	30	7.4	9.9	8.0
Milner	5J24	NS			- -	- -
Monarch Lake	5J14	2/25	27	4.0	11.5	10.7
North Inlet to Grand Lake	5J9	EST.	28	5.3	11.4	8.3
Pando	6K19	2/25	25	6.5	10.6	9.1*
Phantom Valley	5J4	2/26	31	8.3	12.9	9.2
Ranch Creek	5K18	2/25	25	5.6	8.3	7.3*
Shrine Pass	6K9	3/1	41	9.5	17.0	14.6
Snake River	5K16	2/28	24	4.8	10.7	7.9*
Summit Ranch	6K14	EST.	35	7.9	9.0	7.8*
Tennessee Pass	6K2	2/27	34	6.4	13.7	8.7
Vail Pass	6K15	3/1	39	10.8	19.9	16.0*
Vasquez Creek	5K19	2/25	32	6.9	12.1	10.4
Willow Creek Pass	6J5	2/25	34	8.9	11.9	11.0
Roaring Fork River						
Aspen	7J22	2/25	41	10.8	18.5	- -
Independence Pass Tunnel	6K4	3/1	40	11.3	16.2	14.9
Ivanhoe	6K10	2/27	48	9.3	17.0	15.6
Lift	7K27	2/25	40	11.3	19.9	13.9*
McClure Pass (A)	7K8	2/27	52	17.7	18.2	15.5*
Nast	6K6	2/24	22	3.8	6.9	6.3
North Lost Trail	7K1	2/27	41	13.9	17.0	13.7
Plateau Creek						
Alexander Lake (A)(B)	K3	2/27	64	18.6	19.0	17.8
Mesa Lakes	K4	2/25	49	14.9	14.6	14.3
Park Reservoir (A)(B)	K6	2/27	72	22.3	19.3	21.1
Trickle Divide (A)	K5	2/27	80	24.8	19.8	22.5

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Granby	465.5	232.3	72.1	201.4
Green Mountain	146.9	80.7	69.9	73.9
Vega	32.9	20.7	5.4	-
Williams Fork	96.8	26.3	15.0	-
Dillon	254.0	243.6	-	-

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Berthoud Pass	12/10	3.9	3.9	2.5	2.6
Blue River	11/23	4.2	3.5	2.6	2.7
Gore	11/9	4.9	3.1	2.1	2.5
Grand Mesa	11/10	12.5	12.5	9.0	-
Muddy Pass	11/3	11.1	7.4	6.1	6.4
Placita	12/7	9.3	8.4	3.9	5.1
Ranch Creek	12/10	8.7	6.3	5.6	6.2
Vail	12/29	12.3	8.6	4.3	7.4
Vasquez Siphon	12/13	11.0	7.7	6.8	7.4

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		THIS YEAR AVERAGE	1948-62 AVERAGE
	FORECAST APRIL - SEPT.	PERCENT		
Blue River abv. Green Mt. (10)	190	70	274	
Colo. River nr Granby (11)	195	84	233	
Colo. River abv Glenwood Springs (12)	1200	77	1556	
Roaring Fork at Glenwood Springs (14)	762	100	762	
Williams Fork nr Parshall (15)	55	71	77	
Willow abv Willow Cr. (15)	41	85	48	
Colo. nr Cameo (12)	2050	93	2213	

- (10) Observed flow plus change in storage in Dillon Reservoir.
 (11) Observed flow plus diversions by Adams Tunnel and Grand River Ditch plus change in storage in Granby Reservoir.
 (12) Observed flow plus the changes as indicated in (11) plus Moffat Ditch.
 (14) Observed flow plus diversions through Twin Lakes Tunnel.
 (15) Observed flow plus diversions through Jones Pass Tunnel.

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DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Snow Survey
 Colorado State University
 Fort Collins, Colorado

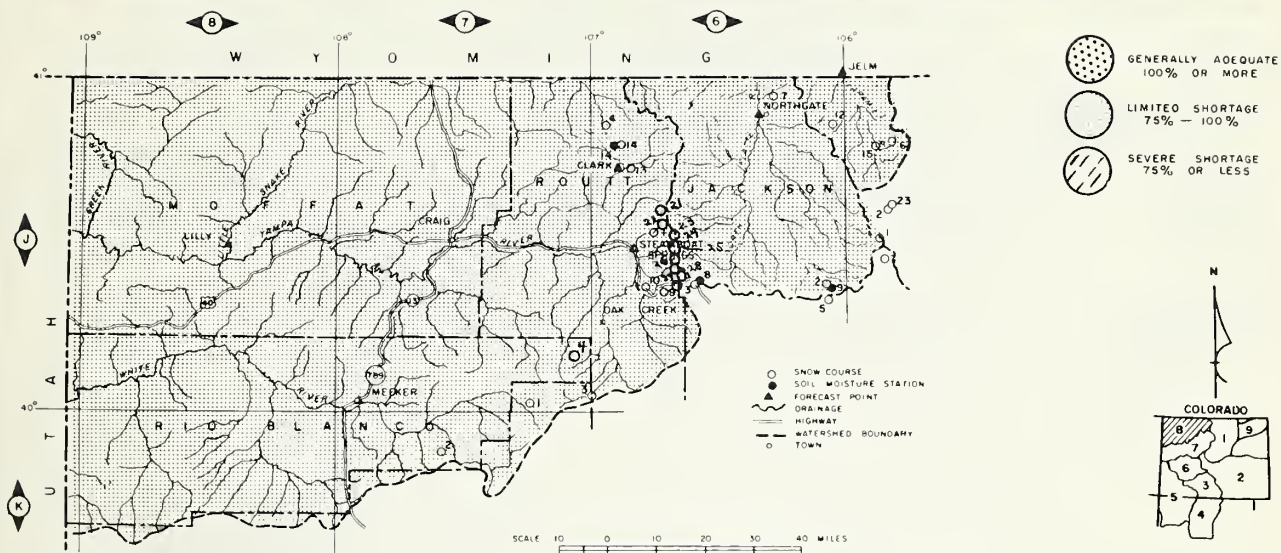
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WATER SUPPLY OUTLOOK WATERSHED VIII
FOR THE SOIL CONSERVATION DISTRICTS IN THE
YAMPA, WHITE, AND NORTH PLATTE
RIVERS WATERSHEDS IN COLORADO

as of
March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The North Platte, Yampa and White River Watersheds have a less than normal snow pack, but spring and summer flows should be adequate.

The snow pack on the North Platte and Yampa are about 75% of normal while the White Watershed has about 90% of the 1948-62 average.

Soil in the mountain areas is wetter than most years and should increase the runoff to some extent.

Valley soils are reported in good condition over the entire area.

Current streamflows are near normal.

Forecasts for streams in this area vary from 90% of normal on the White to 75% on the Little Snake.

The Yampa should flow about 77% of average if the precipitation is near average for the rest of the season.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

J. L. Hall, Area Conservationist,
Glenwood Springs, Colorado

SNOW

SNOW COURSE	NO.	CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
					LAST YEAR	AVERAGE 1948-62
North Platte River						
Cameron Pass (A)	5J1	2/24	48	15.2	20.5	19.2
Columbine Lodge	6J3	2/25	50	14.0	25.3	20.5
Deadman Hill (A)(B)	5J6	2/23	46	12.0	15.2	12.9
McIntyre (B)	5J15	NS			-	-
Northgate	6J7	2/24	19	3.9	6.6	5.6*
Park View	6J2	2/25	27	6.3	10.6	7.9
Roach (A)	6J12	2/23	39	10.5	18.6	16.2
Willow Creek Pass (B)	6J5	2/25	34	8.9	11.9	11.0
Yampa River						
Bear River	7J3	NS			-	-
Clark (A)	6J13	2/22	33	8.9	16.8	-
Columbine Lodge (B)	6J3	2/25	50	14.0	25.3	20.5
Dry Lake (A)	6J1	2/22	55	15.4	19.8	18.5
Elk River (A)	6J4	2/22	46	12.4	22.4	15.9
Hahn's Peak	6J14	NS			-	-
Lynx Pass (B)	6J6	2/23	30	7.0	13.0	10.8
Rabbit Ears	6J9	2/25	57	17.2	24.2	24.9
Yampa View	6J10	2/25	37	10.0	15.2	13.8*
White River						
Burro Mountain (A)	7K2	2/27	51	13.3	19.0	15.7
Rio Blanco	7J1	2/24	30	13.0	18.7	13.6

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Hahn's Peak	11/3	19.0	11.0	8.9	-
Laramie Road	10/23	12.4	11.9	7.1	7.6
Muddy Pass	11/3	11.1	7.4	6.1	6.4
Two Mile	10/26	9.1	6.5	4.4	5.8
Willow Pass	11/19	9.5	8.4	5.7	6.8

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		THIS YEAR	AVERAGE
	APRIL - SEPT.	% AVERAGE		1948-62
Elk at Clark		170	83	205
Laramie at Jelm		100	89	112
Little Snake at Lilly		240	75	321
White at Meeker		300	90	332
Yampa at Maybell		710	77	923
Yampa at Steamboat Spr.		250	96	292

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

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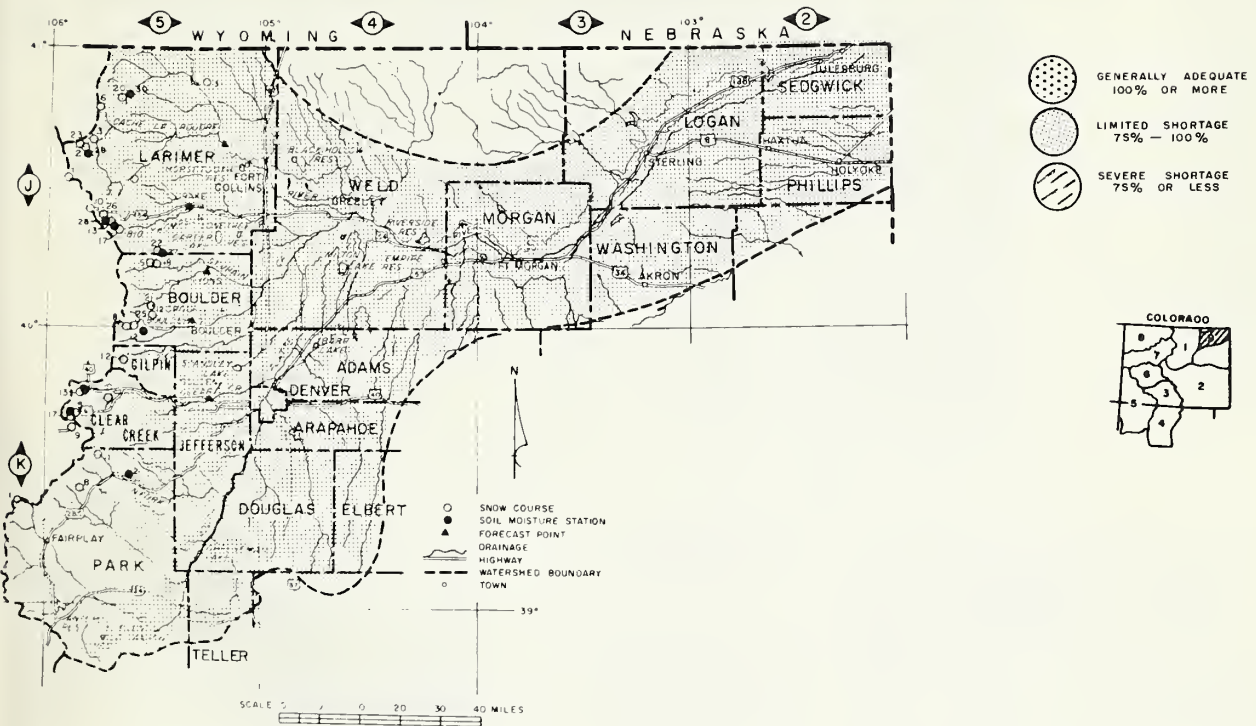
WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE

LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

March 1, 1966

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION - STATE ENGINEERS OF COLORADO AND NEW MEXICO



The South Platte and its' tributaries are far behind on their high elevation snow pack. Current snow readings indicate the pack is only 53% of last year and only 65% of the 1948-62 normal. There are a couple of months left in which to bring the snow pack up to normal, but it is doubtful if this is attained.

The total water supply outlook is not quite so bad, primarily due to the above average carry-over storage. Irrigators that have reservoir storage to back them up this summer, should have a near normal water supply.

Farmers relying on river runs will have some short water supplies.

Soils in the mountains are wet, which should increase the runoff slightly.

Forecasts are based on average precipitation for the remainder of the year.

The Lower South Platte River will flow below normal this season. Tributary streams are forecast from 75-85% of average.

"THE CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY"

Issued By: Soil Conservation Service

F. A. Mark, State Conservationist,
Colorado

Wallace L. Bruce, Area Conservationist
Sterling, Colorado

SNOW

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE	NO.	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	AVERAGE
					LAST YEAR	1948-62
South Platte River & Tributaries						
Baltimore	5K23	2/28	16	3.2	6.5	- -
Berthoud Falls	5K13	2/28	35	9.2	15.0	13.0*
Big South	5J3	2/26	7	1.3	3.7	2.5
Boulder Falls	5J25	2/27	27	7.4	14.5	9.9*
Cameron Pass (A)	5J1	2/24	48	15.2	20.5	19.2
Chambers Lake	5J2	2/26	17	4.3	10.2	7.8
Copeland Lake	5J18	2/25	10	2.4	5.6	4.5*
Deadman Hill (A)	5J6	2/23	46	12.0	15.2	12.9
Deer Ridge	5J17	2/24	13	3.4	5.0	4.7*
Empire	5K10	2/28	27	4.6	7.4	6.5*
Geneva Park	5K11	2/28	10	2.1	6.3	3.7*
Grizzly Peak (8)	5K9	2/28	37	8.8	19.4	15.0
Hidden Valley	5J13	2/24	26	5.9	10.0	9.4
Hoosier Pass	6K1	2/25	29	5.6	17.1	11.1
Hour Glass Lake	5J11	2/25	17	3.3	7.7	6.0
Jefferson Creek	5K8	2/25	25	5.1	11.3	8.0*
Lake Irene (8)	5J10	EST.	55	16.5	24.0	20.0
Long's Peak	5J22	2/27	28	6.1	12.5	9.8*
Lost Lake	5J23	2/28	24	5.9	12.2	10.8*
Loveland Lift NO. 1	5K24	2/28	53	13.8	15.9	- -
Loveland Pass	5J5	2/28	36	8.8	23.5	13.1
Pine Creek	5J31	2/25	6	1.2	2.0	- -
Red Feather	5J10	2/25	15	3.2	6.6	6.5*
Two Mile	5J26	2/24	33	8.3	14.5	12.6*
University Camp	5J8	2/27	34	8.7	19.4	17.6
Ward	5J21	2/25	15	2.9	7.1	5.4*
Wild Basin	5J5	EST.	35	7.6	14.2	11.9

RESERVOIR STORAGE (1,000 AC. FT.)

RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	15 YEAR AVERAGE 1948-62
Carter	108.9	108.1	81.8	63.0
Cheeseman	79.0	79.1	22.3	49.8
Eleven Mile	81.9	87.9	27.7	74.2
Empire	37.7	24.4	22.4	27.4
Horsetooth	143.5	95.5	80.2	69.5
Jackson	35.4	30.5	31.3	30.6
Julesburg	28.2	20.1	21.2	20.6
Point of Rocks	70.0	65.6	29.8	51.8
Prewitt	32.8	22.6	0	18.0
Riverside	57.5	47.0	31.3	44.0

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Alpine Camp	10/26	6.9	5.5	3.2	4.8
Beaver Dam	10/26	7.1	5.5	3.0	3.8
Clear Creek	10/29	9.5	8.0	7.0	6.7
Feather	10/23	10.1	5.1	4.2	4.6
Guard Station	10/26	6.9	5.0	2.8	3.4
Hoop Creek	12/15	4.9	3.6	2.6	2.7
Hoosier Pass	11/23	7.8	4.8	4.3	5.1
Kenosha Pass	11/23	4.4	3.1	2.3	2.6
Laramie Road	10/23	12.4	11.9	7.1	7.6
Two Mile	10/26	9.1	6.5	4.4	5.8

ALL PROFILES 4 FEET DEEP

STREAMFLOW FORECAST (1,000 AC. FT.)

STREAM AND STATION	APRIL THROUGH SEPTEMBER		AVERAGE 1948-62
	FORECAST APRIL - SEPT.	THIS YEAR AVERAGE	
Big Thompson at Drake (2)	90	81	110
Boulder at Orodell	44	81	54
Cache La Poudre at Canon Mouth (1)	200	81	246
Clear Creek at Golden (3)	115	85	134
Saint Vrain at Lyons	55	69	80

NOTE: * - 1948-62 (adjusted averages)
 NS - NO SURVEY
 (A) - AIR OBSERVED
 (B) - ON ADJACENT DRAINAGE

This Report Prepared by
 Jack N. Washichek and
 Don W. McAndrew
 Soil Conservation Service
 Colorado State University
 Fort Collins, Colorado

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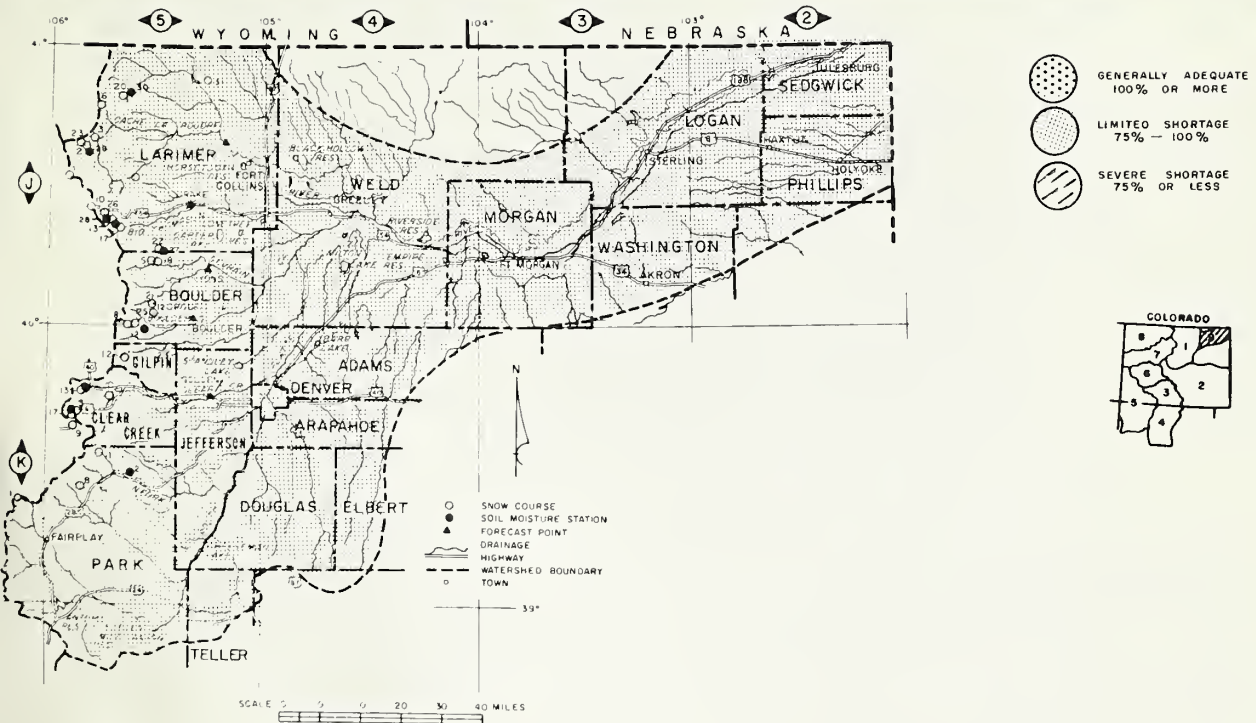
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WATER SUPPLY OUTLOOK
FOR THE SOIL CONSERVATION DISTRICTS IN THE
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as of

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Grizzly Peak	(B)	5K9	2/28	37	8.8	19.4	15.0
Hidden Valley		5J13	2/24	26	5.9	10.0	9.4
Hoosier Pass		6K1	2/25	29	5.6	17.1	11.1
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Jefferson Creek		5K8	2/25	25	5.1	11.3	8.0*
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Pine Creek		5J31	2/25	6	1.2	2.0	- -
Red Feather		5J10	2/25	15	3.2	6.6	6.5*
Two Mile		5J26	2/24	33	8.3	14.5	12.6*
University Camp		5J8	2/27	34	8.7	19.4	17.6
Ward		5J21	2/25	15	2.9	7.1	5.4*
Wild Basin		5J5	EST.	35	7.6	14.2	11.9

STREAMFLOW FORECAST (1,000 AC. FT.)

APRIL THROUGH SEPTEMBER				THIS
STREAM AND STATION	FORECAST APRIL - SEPT.	YEAR	AVERAGE 1948-62	
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Horsetooth	143.5	95.5	80.2	69.5
Jackson	35.4	30.5	31.3	30.6
Julesburg	28.2	20.1	21.2	20.6
Point of Rocks	70.0	65.6	29.8	51.8
Prewitt	32.8	22.6	0	18.0
Riverside	57.5	47.0	31.3	44.0

MEASURED FIRST OF MONTH

SOIL MOISTURE

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVERAGE (ALL PAST DATA)
Alpine Camp	10/26	6.9	5.5	3.2	4.8
Beaver Dam	10/26	7.1	5.5	3.0	3.8
Clear Creek	10/29	9.5	8.0	7.0	6.7
Feather	10/23	10.1	5.1	4.2	4.6
Guard Station	10/26	6.9	5.0	2.8	3.4
Hoop Creek	12/15	4.9	3.6	2.6	2.7
Hoosier Pass	11/23	7.8	4.8	4.3	5.1
Kenosha Pass	11/23	4.4	3.1	2.3	2.6
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Two Mile	10/26	9.1	6.5	4.4	5.8

ALL PROFILES 4 FEET DEEP

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Colorado State Engineer
New Mexico State Engineer
Nebraska State Engineer
Colorado Experiment Station
Rocky Mountain Forest and Range Experiment Station

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Forest Service
Soil Conservation Service

Department of Interior

Bureau of Reclamation
Geological Survey
National Park Service
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Department of Commerce

Weather Bureau

War Department

Army Engineer Corps

Atomic Energy Commission

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Public Service Company of New Mexico

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City of Boulder	City of Fort Collins

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Colorado River Water Conservation District

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San Luis Valley Irrigation District
Santa Maria Reservoir Company
Costilla Land Company
Uncompahgre Valley Water Users' Association
Twin Lakes Reservoir and Canal Company
Trinchera Irrigation Co.

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SOIL CONSERVATION SERVICE
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